Appendix B

E-UTRA Band 13

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.24	13.59	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.22	13.57	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.1	13.45	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.34	12.69	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.32	12.67	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.33	12.68	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.37	12.72	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.02	13.37	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.31	13.66	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	**23.43**	13.78	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.34	12.69	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.3	12.65	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.38	12.73	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.36	12.71	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.94	13.29	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.39	13.74	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.96	13.31	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.26	12.61	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.26	12.61	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.15	12.5	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.23	12.58	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.09	12.44	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.13	12.48	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.04	12.39	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.5	11.85	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.47	11.82	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.27	11.62	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.15	11.5	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.14	12.49	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.88	12.23	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.49	12.84	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.24	11.59	34.77	PASS

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Band13	5MHz	16QAM	23230	12RB#6	21.41	11.76	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.33	11.68	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.36	11.71	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.02	12.37	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.24	12.59	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.91	12.26	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.22	11.57	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.25	11.6	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.08	11.43	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.04	11.39	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.41	13.76	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	**23.57**	13.92	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.12	13.47	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.33	12.68	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.23	12.58	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.34	12.69	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.37	12.72	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.43	12.78	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.56	12.91	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.25	12.6	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.37	11.72	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.51	11.86	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.36	11.71	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.1	11.45	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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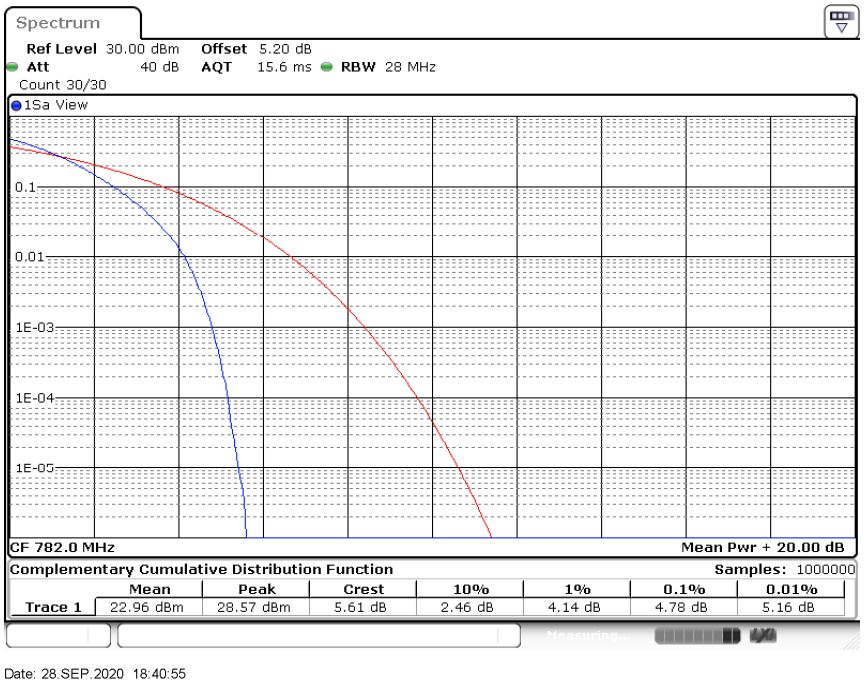
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	4.78	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.57	13	PASS

2.2. Test Plots

Band13-10MHz-QPSK-23230-50RB#0



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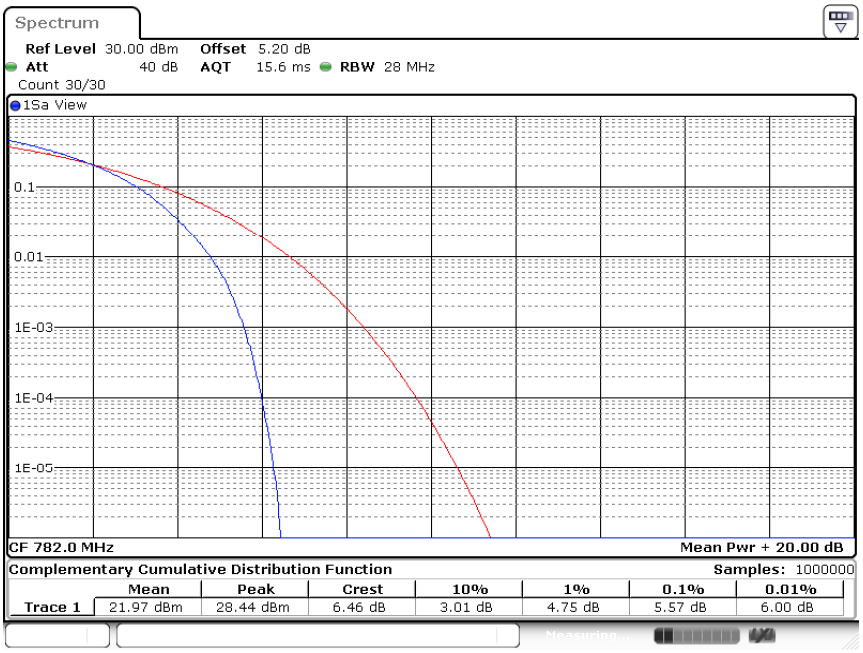
Band13-10MHz-16QAM-23230-50RB#0



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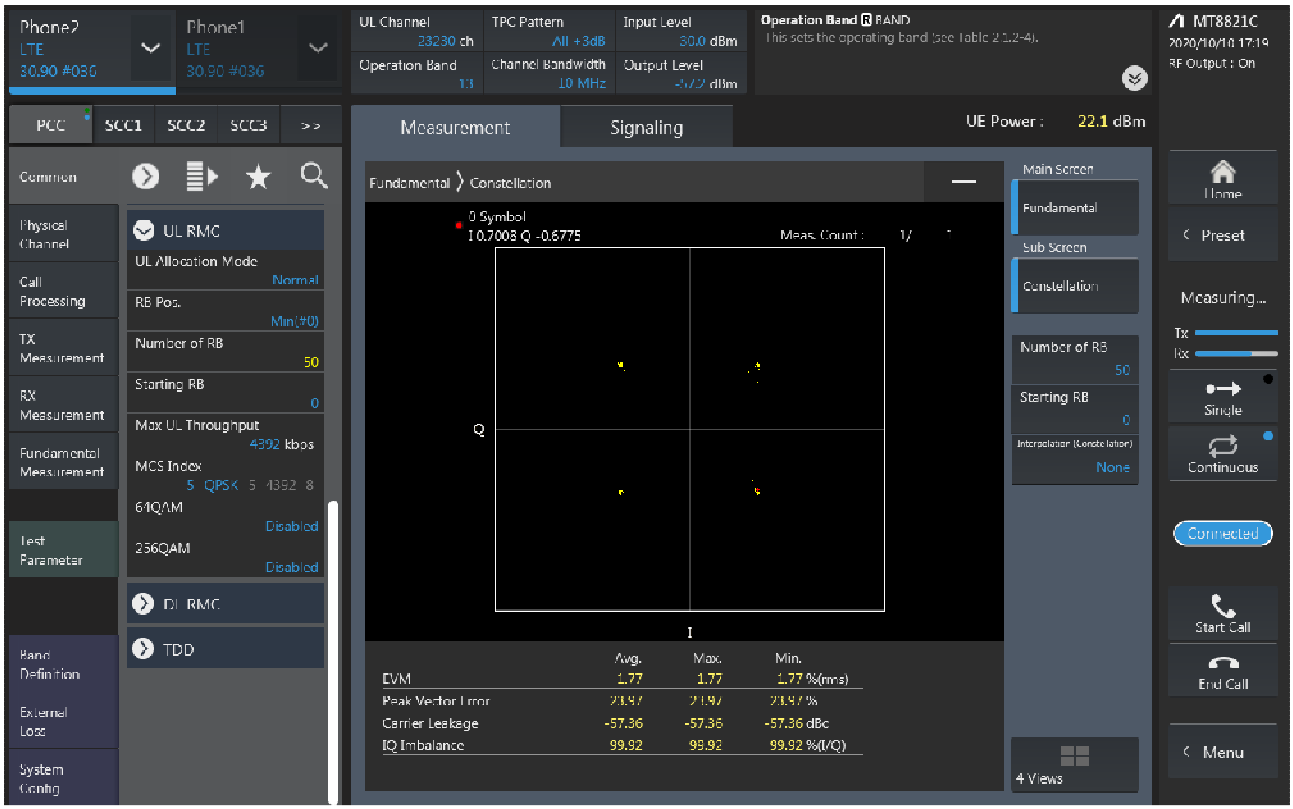
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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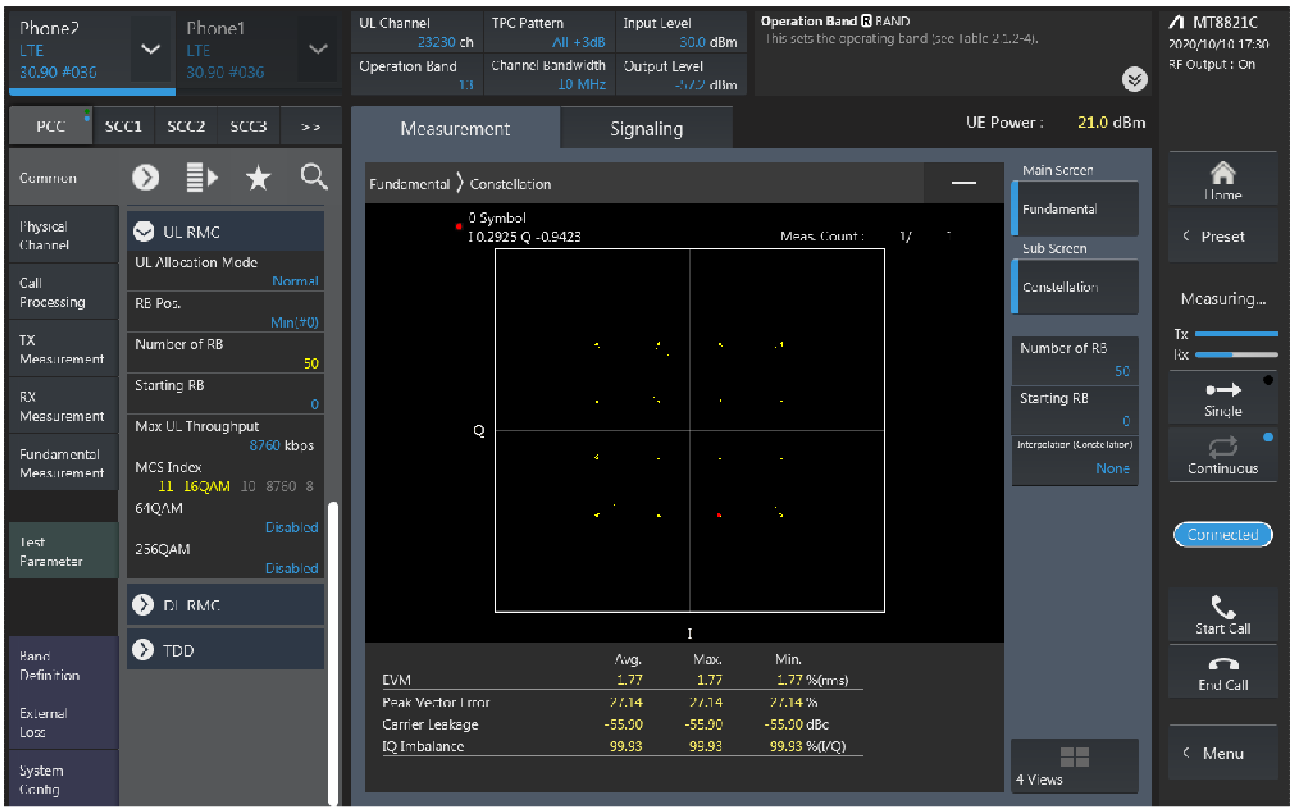
3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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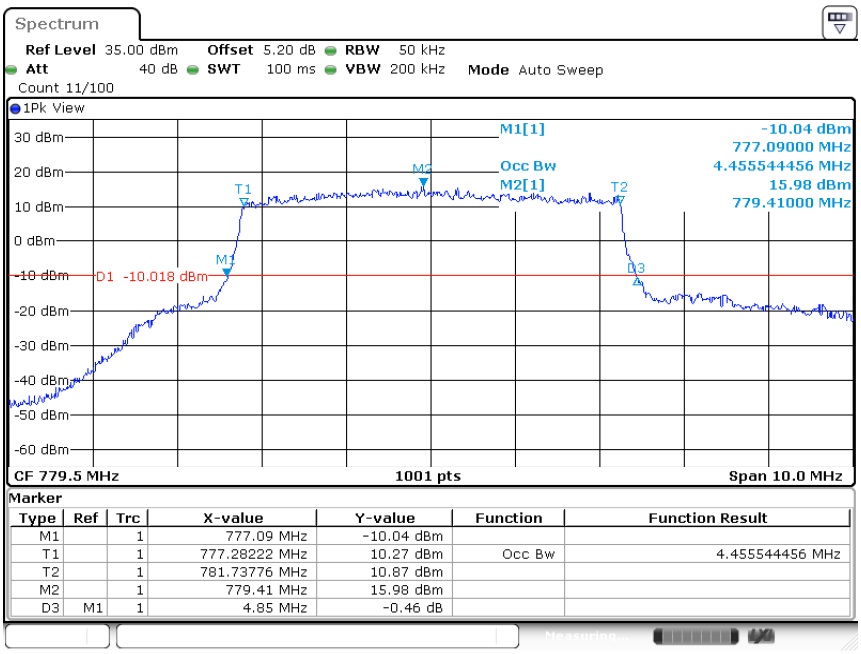
4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.456	4.850	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.486	4.940	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.446	4.830	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.466	4.900	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.505	4.980	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.456	4.890	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.891	9.600	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.891	9.680	PASS

4.2. Test Plots

Band13-5MHz-QPSK-23205-25RB#0-4.456



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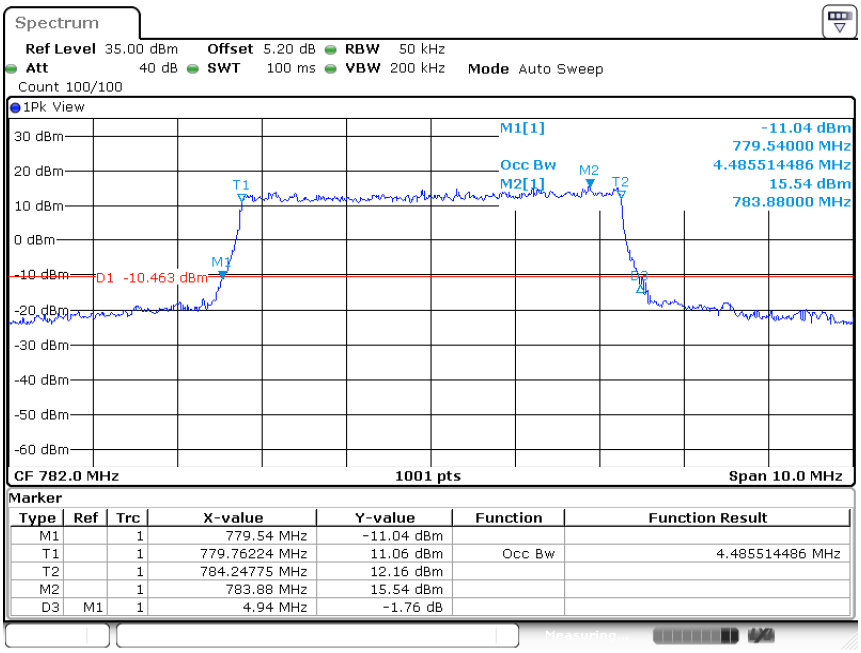

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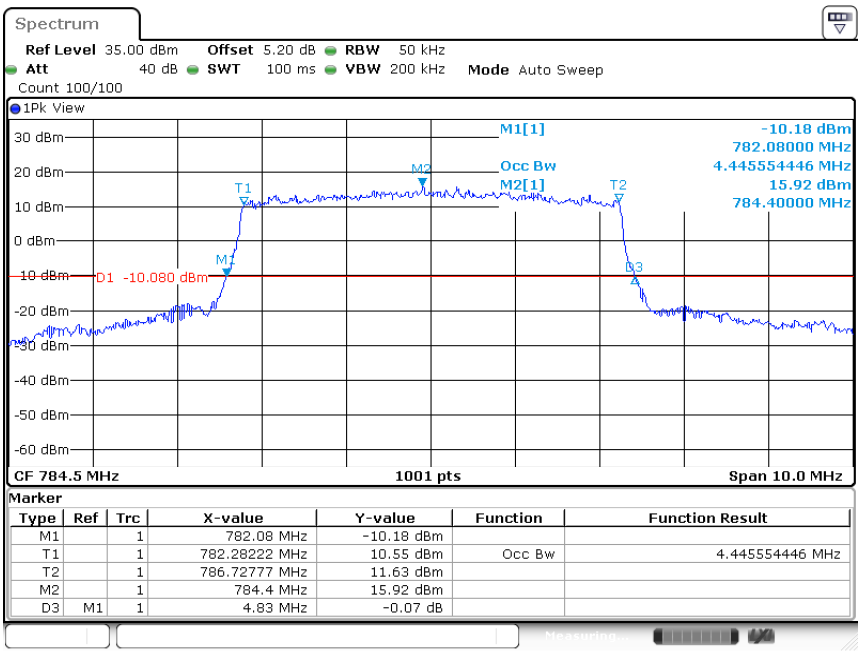

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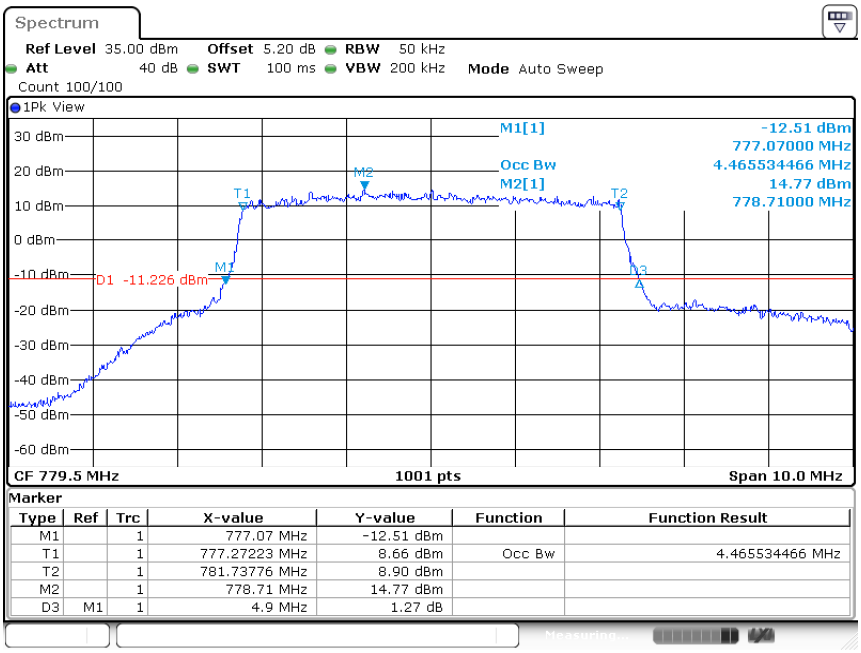
Band13-5MHz-16QAM-23205-25RB#0-4.466

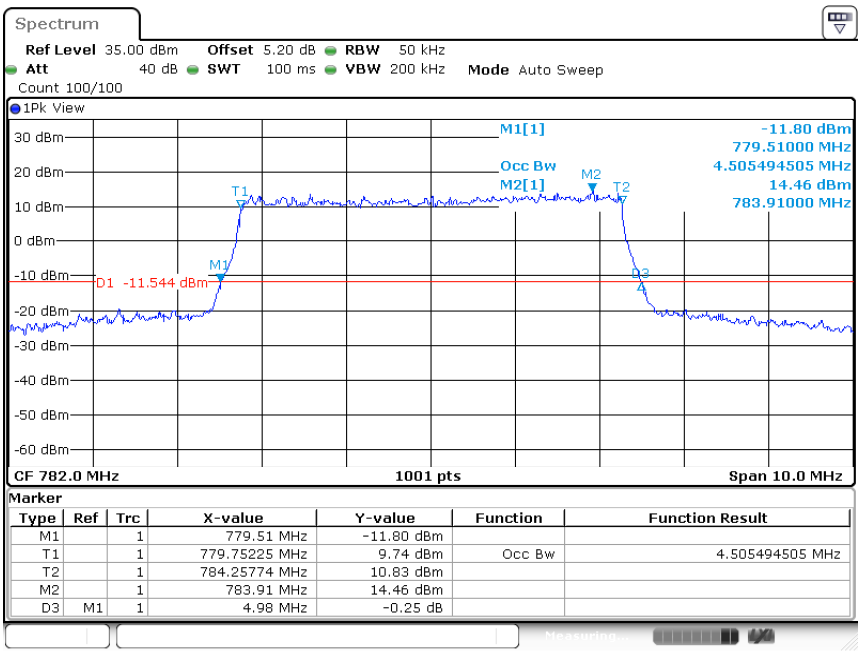


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	777.07 MHz	-12.51 dBm		
T1		1	777.27223 MHz	8.66 dBm	Occ Bw	4.465534466 MHz
T2		1	781.73776 MHz	8.90 dBm		
M2		1	778.71 MHz	14.77 dBm		
D3	M1	1	4.9 MHz	1.27 dB		

Date: 28.SEP.2020 18:33:28

Band13-5MHz-16QAM-23230-25RB#0-4.505



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	779.51 MHz	-11.80 dBm		
T1		1	779.75225 MHz	9.74 dBm	Occ Bw	4.505494505 MHz
T2		1	784.25774 MHz	10.83 dBm		
M2		1	783.91 MHz	14.46 dBm		
D3	M1	1	4.98 MHz	-0.25 dB		

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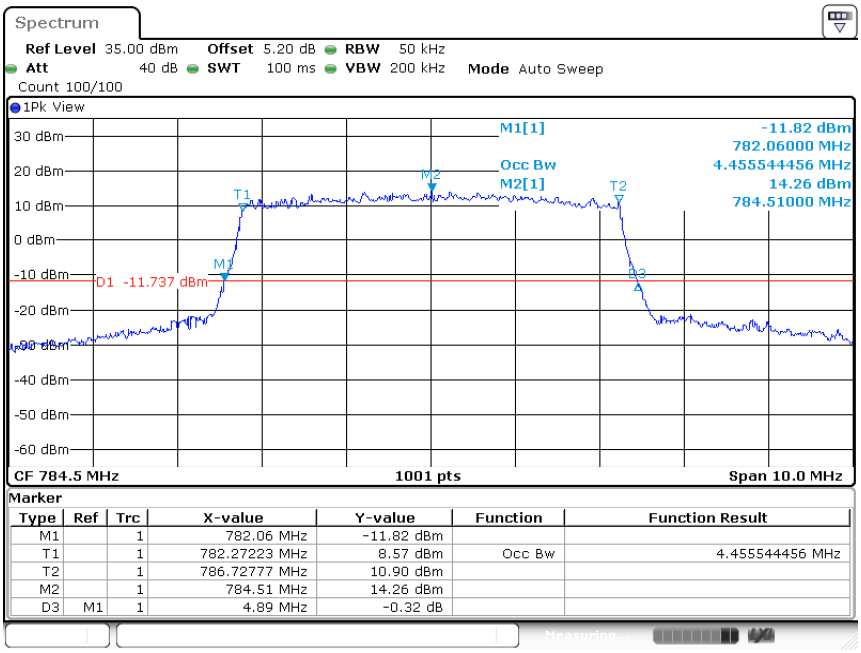
Band13-5MHz-16QAM-23255-25RB#0-4.456



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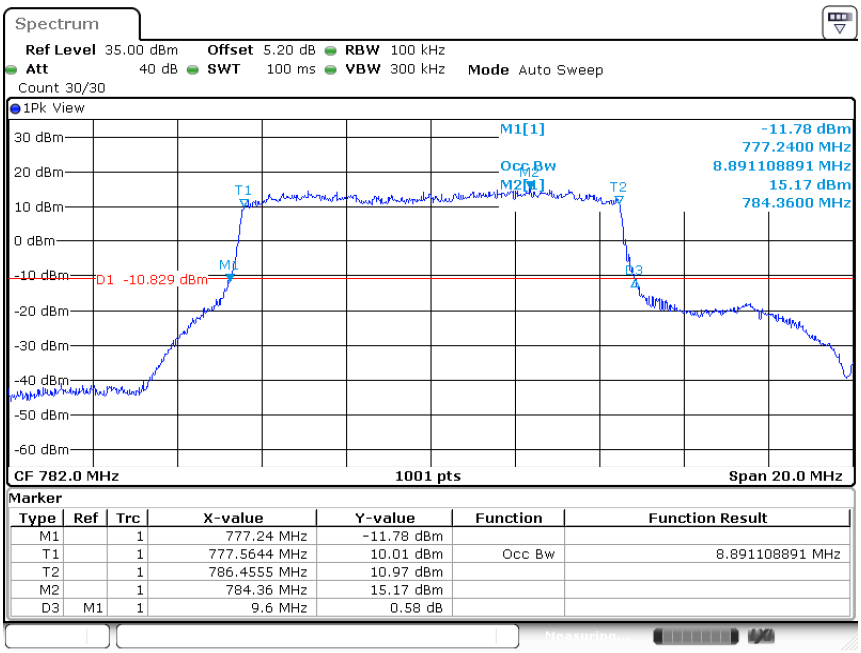
Band13-10MHz-QPSK-23230-50RB#0-8.891



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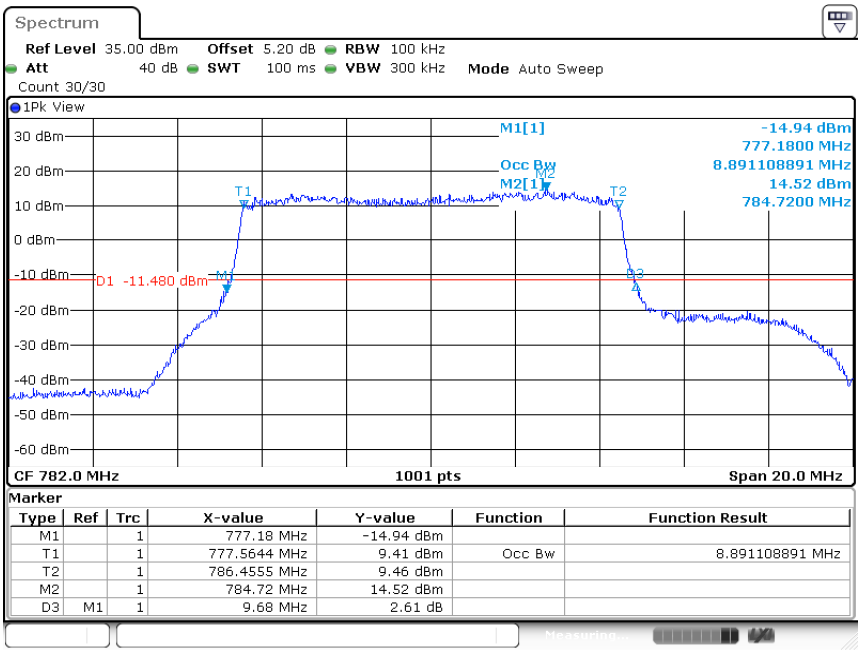
Band13-10MHz-16QAM-23230-50RB#0-8.891



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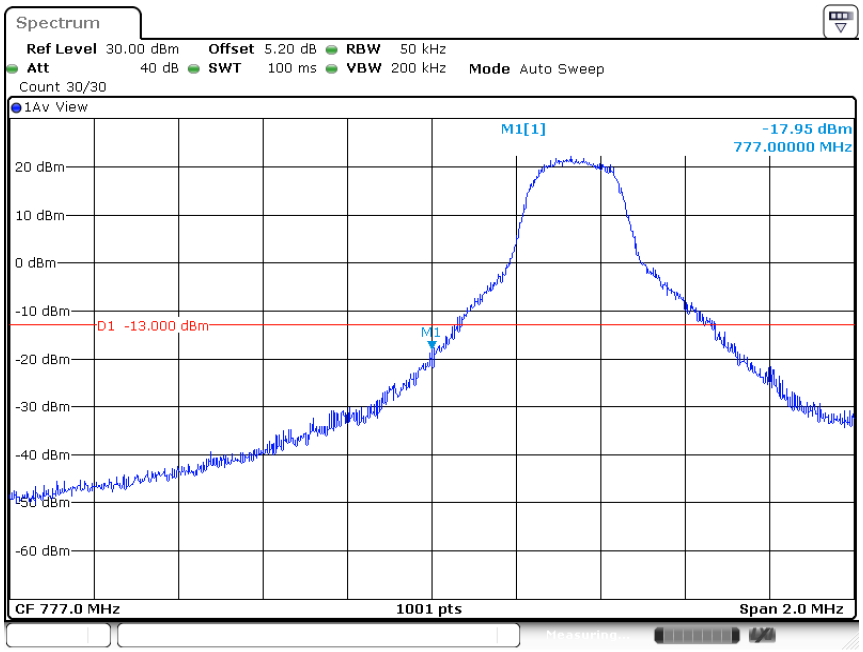
5. Band Edge Compliance

5.1. Test Plots

Band13-5MHz-QPSK-23205-1RB#0


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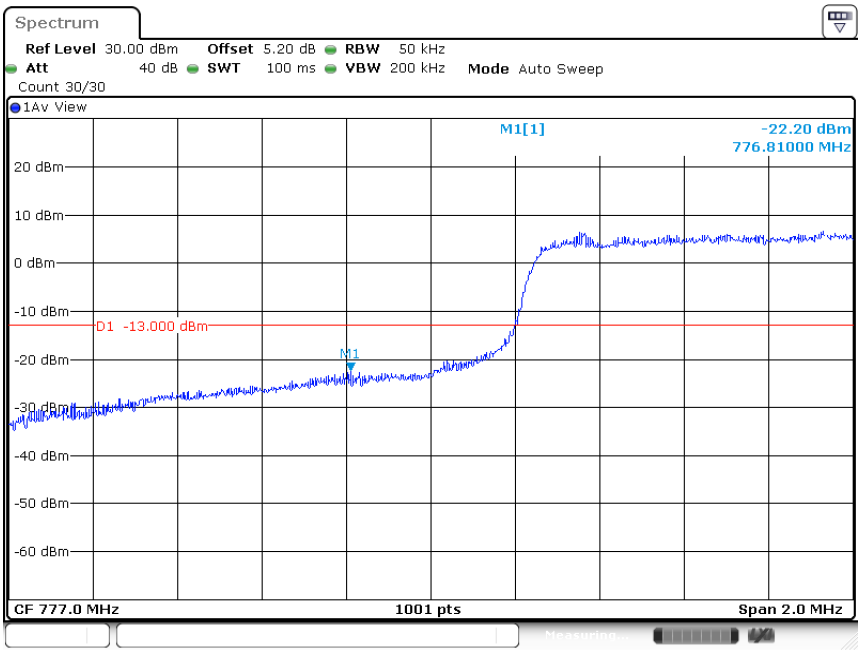
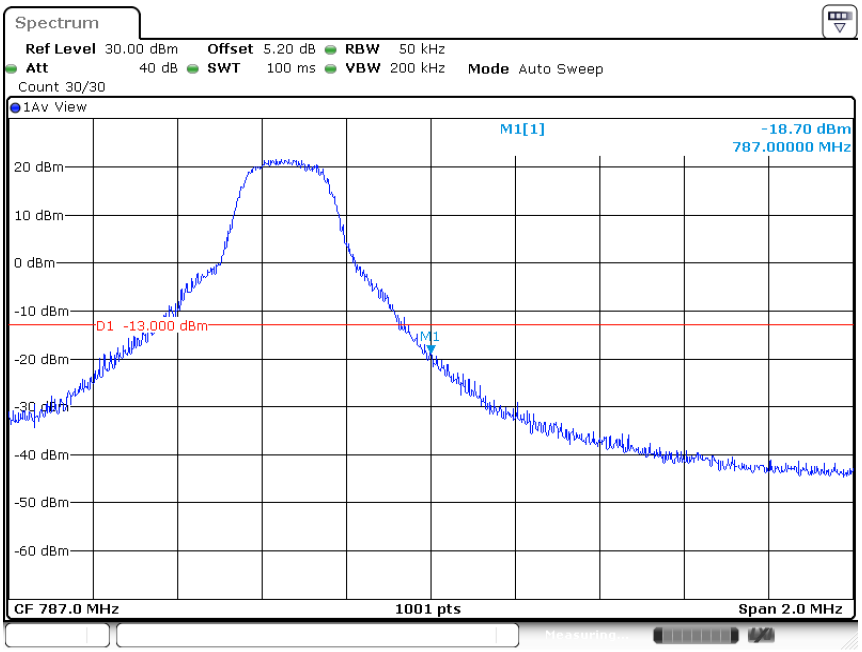
Band13-5MHz-QPSK-23205-25RB#0



Date: 28.SEP.2020 18:36:33

Band13-5MHz-QPSK-23255-1RB#24



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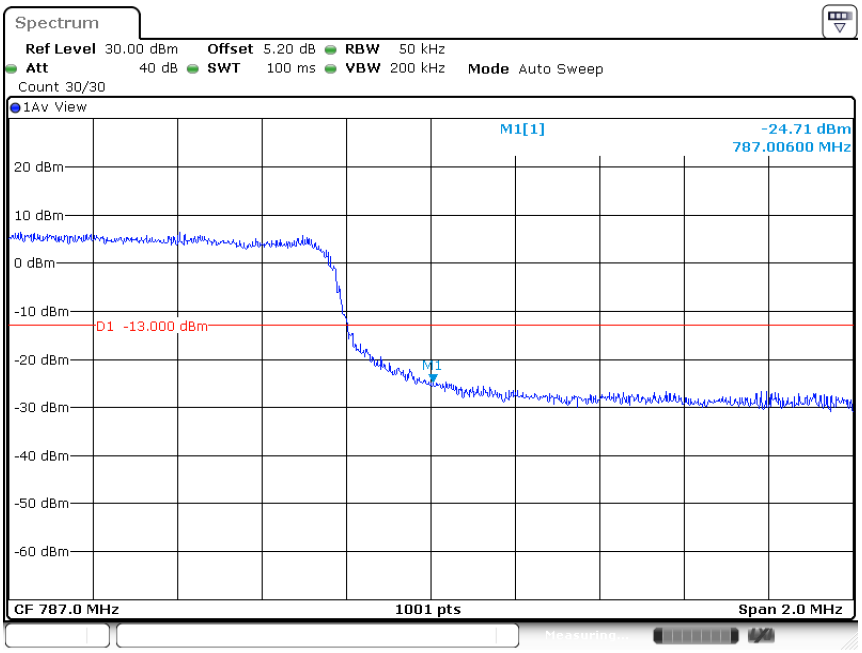

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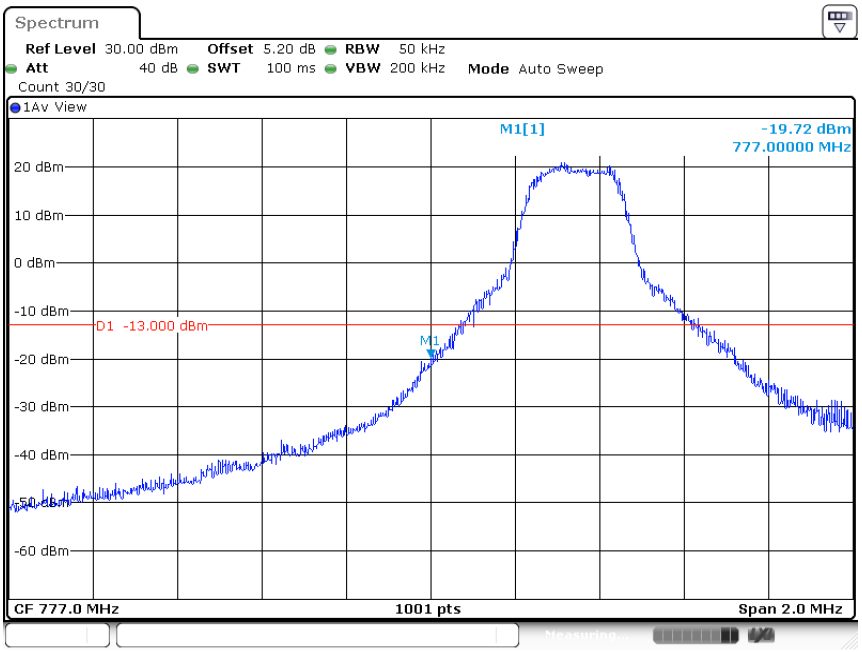

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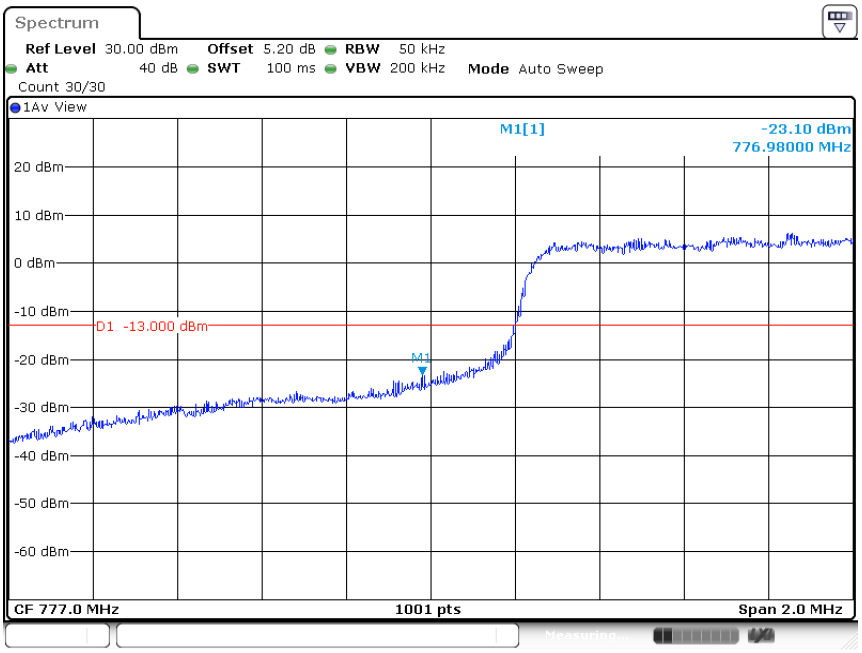
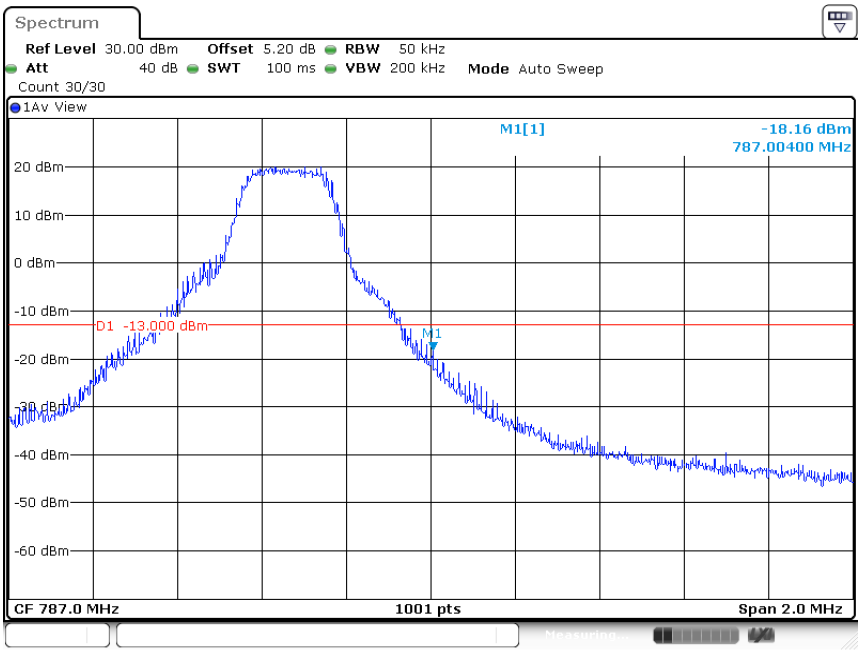


Date: 28.SEP.2020 18:36:50

Band13-5MHz-16QAM-23255-1RB#24



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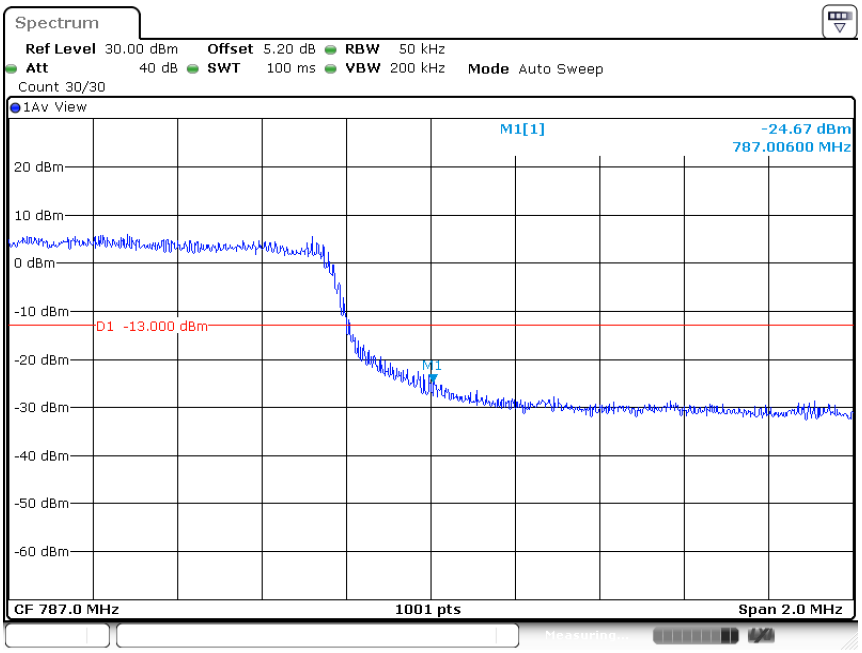
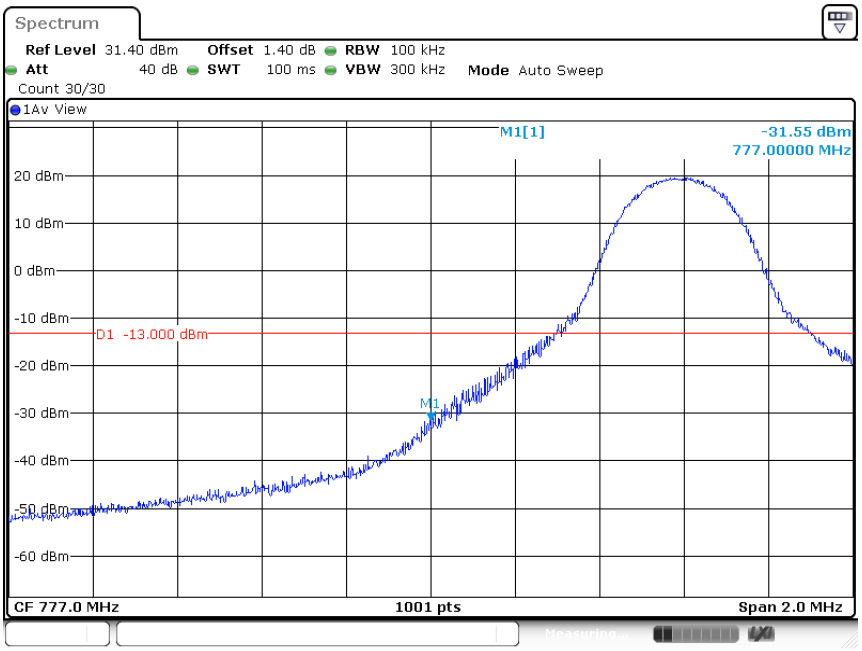
Band13-5MHz-16QAM-23255-25RB#0



Date: 28.SEP.2020 18:38:03

Band13-10MHz-QPSK-23230_Left-1RB#0



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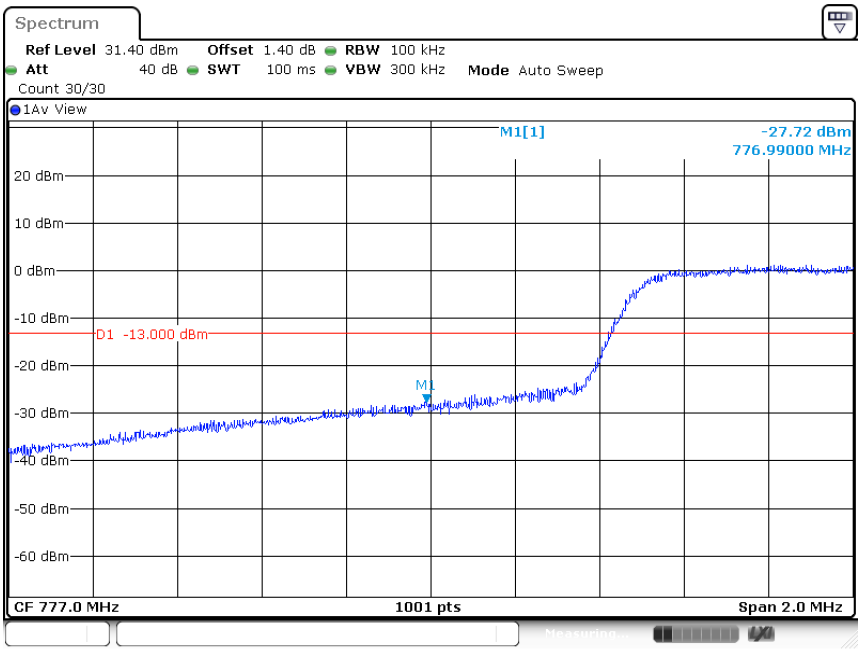
Band13-10MHz-QPSK-23230_Left-50RB#0



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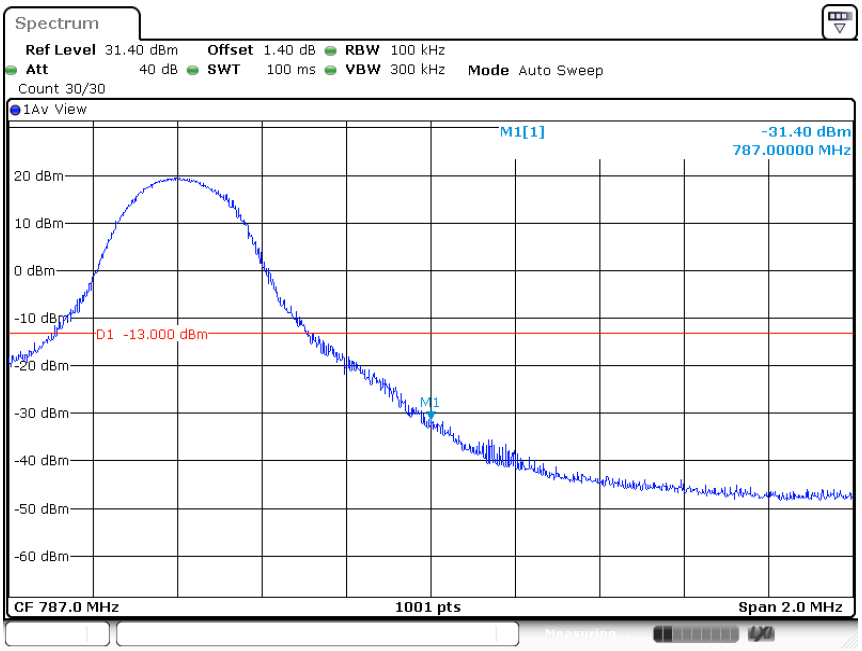

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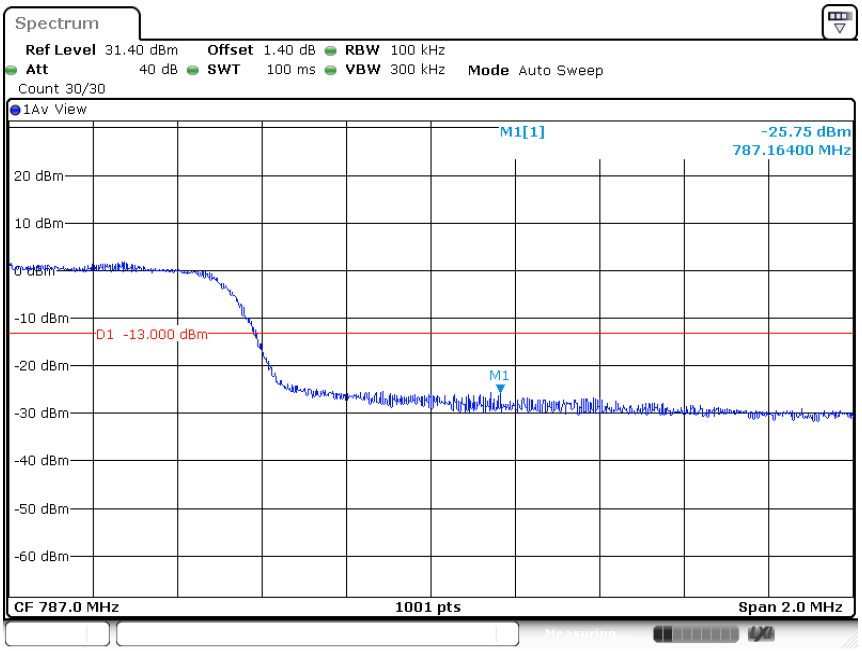
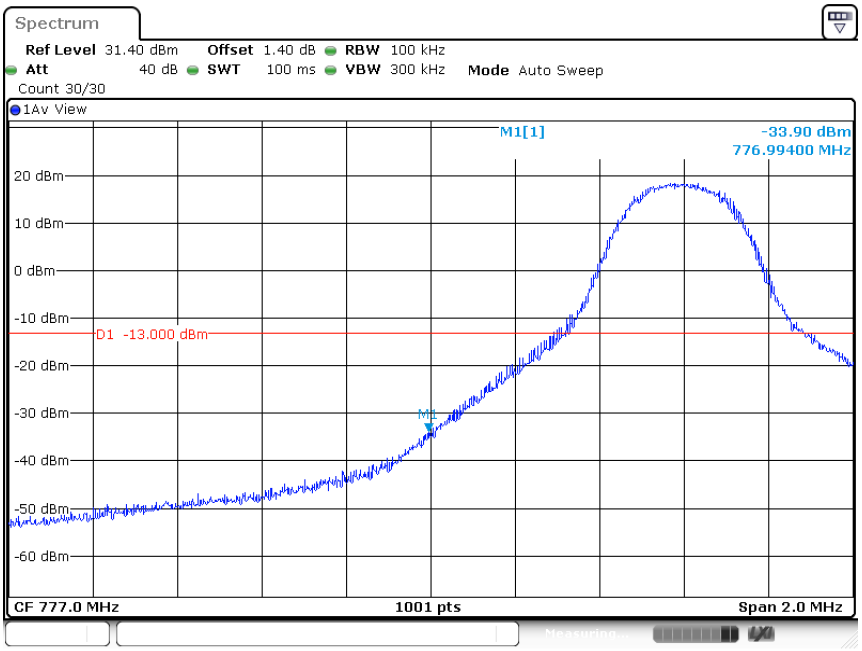
Band13-10MHz-QPSK-23230_Right-50RB#0



Date: 12.OCT.2020 14:09:30

Band13-10MHz-16QAM-23230_Left-1RB#0



Date: 12.OCT.2020 14:08:06

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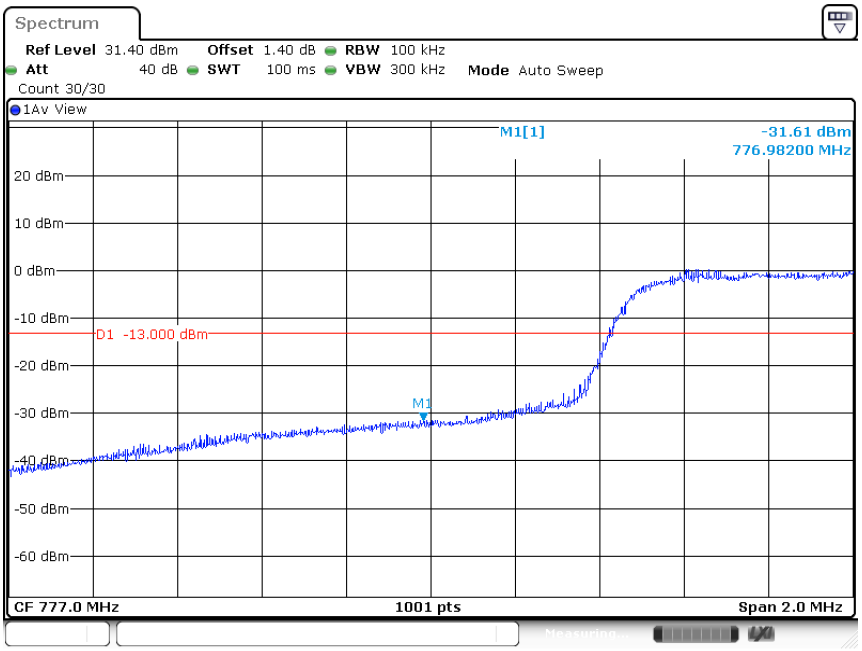
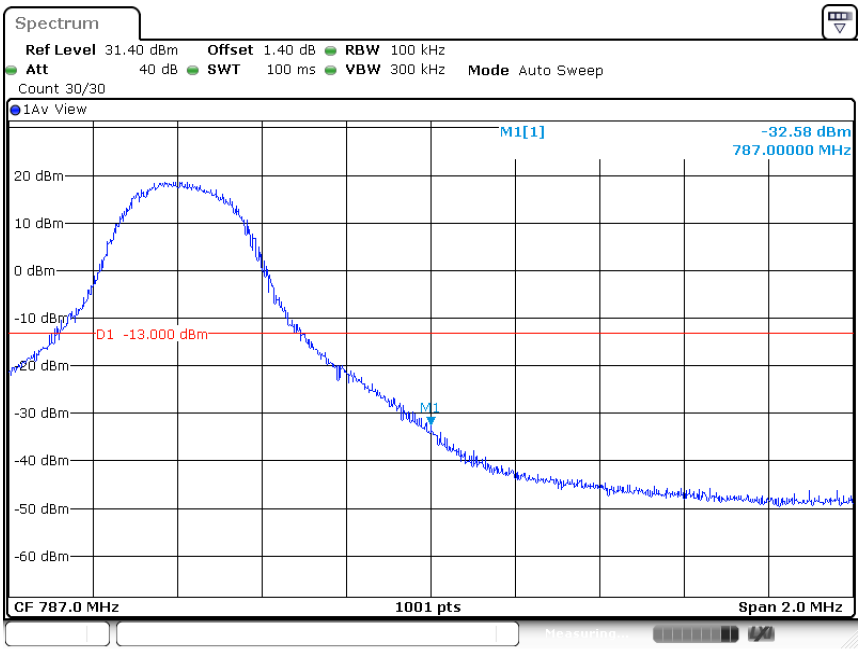
Band13-10MHz-16QAM-23230_Left-50RB#0



Date: 12.OCT.2020 14:08:38

Band13-10MHz-16QAM-23230_Right-1RB#49



Date: 12.OCT.2020 14:09:15

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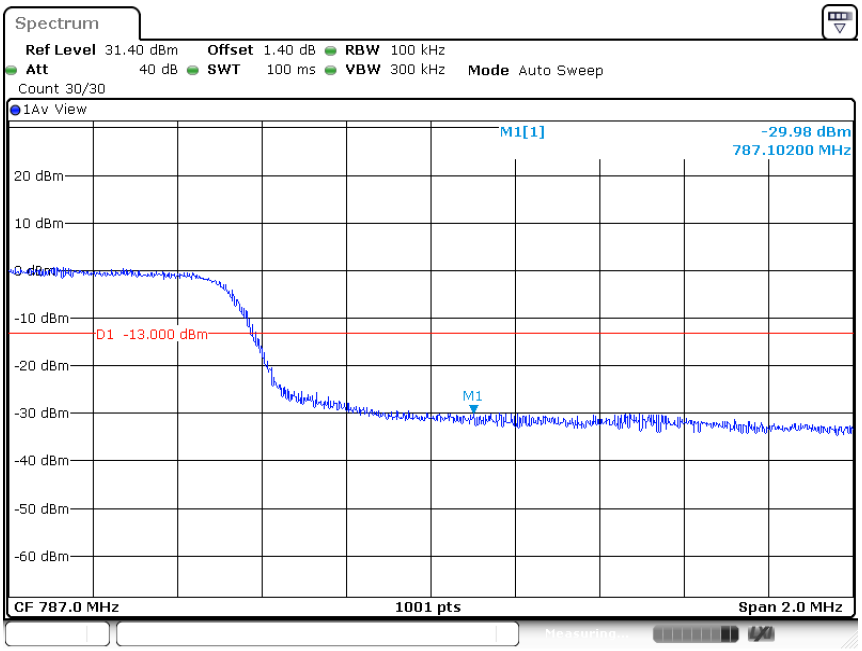
Band13-10MHz-16QAM-23230_Right-50RB#0


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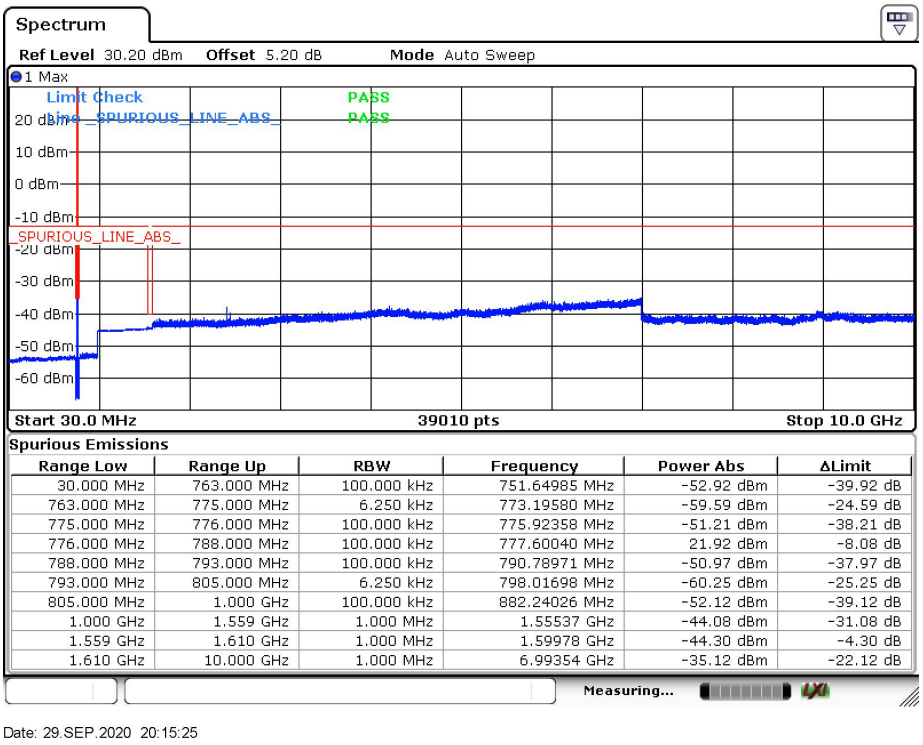
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band13-10MHz-QPSK



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	751.64985 MHz	-52.92 dBm	-39.92 dB
763.000 MHz	775.000 MHz	6.250 kHz	773.19580 MHz	-59.59 dBm	-24.59 dB
775.000 MHz	776.000 MHz	100.000 kHz	775.92358 MHz	-51.21 dBm	-38.21 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.60040 MHz	21.92 dBm	-8.08 dB
788.000 MHz	793.000 MHz	100.000 kHz	790.78971 MHz	-50.97 dBm	-37.97 dB
793.000 MHz	805.000 MHz	6.250 kHz	798.01698 MHz	-60.25 dBm	-25.25 dB
805.000 MHz	1.000 GHz	100.000 kHz	882.24026 MHz	-52.12 dBm	-39.12 dB
1.000 GHz	1.559 GHz	1.000 MHz	1.55537 GHz	-44.08 dBm	-31.08 dB
1.559 GHz	1.610 GHz	1.000 MHz	1.59978 GHz	-44.30 dBm	-4.30 dB
1.610 GHz	10.000 GHz	1.000 MHz	6.99354 GHz	-35.12 dBm	-22.12 dB

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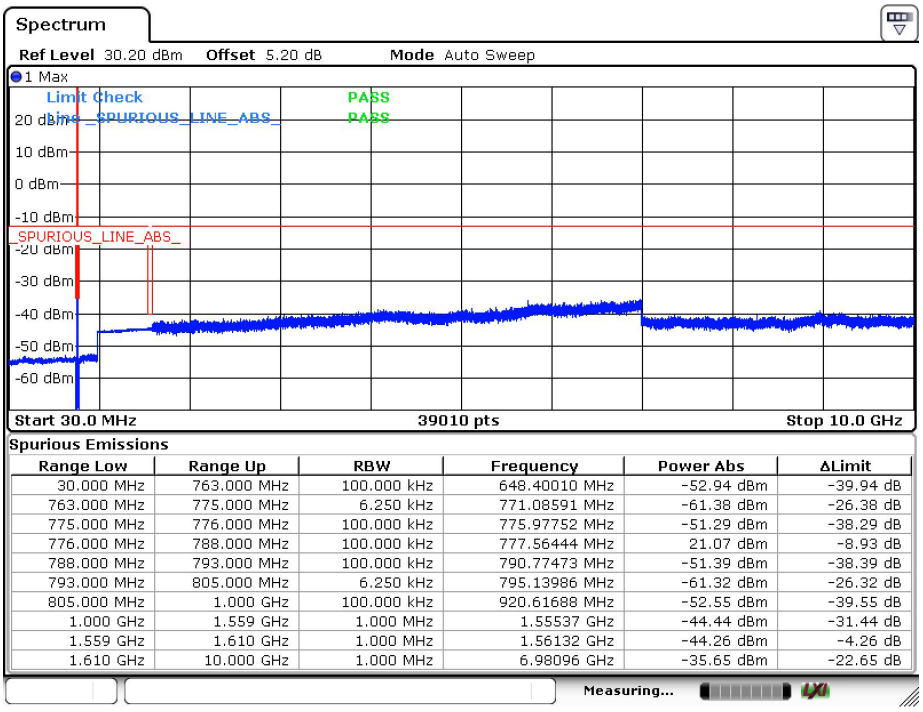
Band13-10MHz-16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	648.40010 MHz	-52.94 dBm	-39.94 dB
763.000 MHz	775.000 MHz	6.250 kHz	771.08591 MHz	-61.38 dBm	-26.38 dB
775.000 MHz	776.000 MHz	100.000 kHz	775.97752 MHz	-51.29 dBm	-38.29 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.56444 MHz	21.07 dBm	-8.93 dB
788.000 MHz	793.000 MHz	100.000 kHz	790.77473 MHz	-51.39 dBm	-38.39 dB
793.000 MHz	805.000 MHz	6.250 kHz	795.13986 MHz	-61.32 dBm	-26.32 dB
805.000 MHz	1.000 GHz	100.000 kHz	920.61688 MHz	-52.55 dBm	-39.55 dB
1.000 GHz	1.559 GHz	1.000 MHz	1.55537 GHz	-44.44 dBm	-31.44 dB
1.559 GHz	1.610 GHz	1.000 MHz	1.56132 GHz	-44.26 dBm	-4.26 dB
1.610 GHz	10.000 GHz	1.000 MHz	6.98096 GHz	-35.65 dBm	-22.65 dB

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.6305	-72.66	-13.00	59.66	Vertical
108.4769	-65.10	-13.00	52.10	Vertical
303.1172	-69.84	-13.00	56.84	Vertical
1582.9166	-65.07	-40.00	25.07	Vertical
2332.6665	-57.58	-13.00	44.58	Vertical
9912.3565	-52.57	-13.00	39.57	Vertical
44.4537	-64.97	-13.00	51.97	Horizontal
104.9847	-75.75	-13.00	62.75	Horizontal
249.5705	-68.35	-13.00	55.35	Horizontal
1586.9174	-64.99	-40.00	24.99	Horizontal
2463.0926	-56.21	-13.00	43.21	Horizontal
9322.3729	-52.84	-13.00	39.84	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-0.10	-0.000128	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-7.70	-0.009847	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	0.50	0.000639	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-0.90	-0.001151	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	0.50	0.000639	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-0.50	-0.000639	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-10.30	-0.013171	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-5.70	-0.007289	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-5.10	-0.006522	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.20	-0.000256	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-5.30	-0.006777	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.70	0.000895	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-2.30	-0.002941	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-3.00	-0.003836	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	0.10	0.000128	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	2.40	0.003069	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	1.30	0.001662	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	1.80	0.002302	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-0.10	-0.000128	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	0.60	0.000767	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	0.70	0.000895	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	1.80	0.002302	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-0.70	-0.000895	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-0.60	-0.000767	±2.5	PASS

The End

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